

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket 024754/0114

FEB 06 2001

In re patent application
Dong et al.

Serial No. 09/252,828

Filed: February 19, 1999

For: RECOMBINANT BIOLOGICALLY ACTIVE HUMAN ZONA PELLUCIDA
PROTEIN 3(Hzp3) TO TEST MALE FERTILITY



Group Art Unit: 1641

Examiner: L. Cook

TECH CENTER 1600/2900

AMENDMENT AND RESPONSE TO ELECTION OF SPECIES

Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office Action dated January 3, 2001 (Paper No. 17),
applicants hereby amend the claims as follows:

✓
Please delete Claim 39 without prejudice or disclaimer.

F 27. (Once Amended) A purified recombinant glycopolypeptide having
between 41 and 400 amino acids and having an active portion that can bind
human spermatozoa at least 10 times as strong as an equivalent molar amount
of mouse ZP3, wherein the active portion comprises an amino acid sequence
that is more than 54% homologous with SEQ ID NO: [1] 2 and has a predicted
O-glycosylation site at a serine that corresponds to position 344 of the human
ZP3 sequence.

28. (Twice Amended) A glycopolypeptide according to claim 27,
comprising a sequence from position 310 to position 345 of SEQ ID NO: [1] 2
wherein at least one amino acid at a position selected from the group consisting
of: (a)310; (b)320; (c)323; (d)326; (e)328; (f)329; (g)332; (h)334; (i)335;